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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

### Complete if Known

Application Number	09/802,911
Filing Date	03-12-2001
First Named Inventor	Eric B. ALLEN, et al.
Group Art Unit	1651 1631
Examiner Name	Unassigned MORAN
Attorney Docket Number	58207.000004

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
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<i>WJH</i>	P1	<i>KOHN, K.W.</i> Oncogene (1998), Vol. 16, pp. 1065-1075. "Functional capabilities of molecular network components controlling the mammalian G1/S cell cycle phase transition" <i>Kurt W. Kohn</i>	
<i>WJH</i>	P2	<i>ABDOUHAMAD et al.</i> Journal Of Bacteriology, Aug 1998, Vol. 180, No. 15, pp. 3757-3764. "Computer-Aided Resolution of an Experimental Paradox in Bacterial Chemotaxis" <i>Walid N. Abdouhamed, et al.</i>	

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Signature

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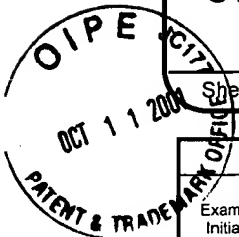
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Sheet 2 of 3

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msy	P1	SCOTT et al. Cell Communication: The Inside Story. Scientific American, Vol 282 No. 6, pp. 72-79 June 2000, JOHN D. SCOTT AND TONY PAWSON	
msy	P2	KARP, P.D. Computer Corner: Metabolic databases. TIBS, Vol. 23, pp 114-116, (March 1998), PETER D. KARP	
msy	P3	Clantey, P. From Guidon to Neomycin and Heracles in Twenty Short Lessons: ORN Final Report 1979-1985, The AI Magazine, August 1986, pp. 40-60. WILLIAM J. CLANCEY	
msy	P4	Bourne, J.R. Critical Reviews In Biomedical Engineering, 19(4): 261-292 (1992), pp. 261-292. JOHN R. BOURNE	
msy	P5	KARP et al. EcoCyc: Encyclopedia of Escherichia coli Genes and Metabolism. Nucleic Acids Research, 1997, Vol. 25, No. 1, pp. 43-50. PETER D. KARP, MONICA RILEY, SUZANNE M. PALEY, ALIDA PELLEGRINI-TOOLE AND MARKUS KRUMMENACKER	
msy	P6	KARP, P.D. Bioinformatics: Database links are a foundation for interoperability. TIBTECH, August 1996 (Vol. 14), pp.273-279 PETER D. KARP	
msy	P7	PALEY et al. Gene-Combis: Adapting EcoCyc for use on the World Wide Web. Gene 172 (1996) GC43-GC50, SUZANNE M. PALEY, PETER D. KARP	
msy	P8	KARP, P.D. Journal Of Computational Biology A Strategy for Database Interoperation, Vol 2, No. 4, 1995, pp. 573-586, PETER D. KARP	
msy	P9	KARP, P.D. Representation of Metabolic Pathways, ISMB-94, pp. 204-211, 1994, PETER D. KARP	
msy	P10	KARP et al. Nucleic Acids Research, 2000, Vol. 28, No. 1, pp. 56-59. The EcoCyc and MetaCyc databases. PETER D. KARP, MONICA RILEY, MILTON SAIER, IAN T. PAULSEN, SUZANNE M. PALEY AND ALIDA PELLEGRINI-TOOLE	
msy	P11	KARP, P.D. Hypothesis Formation and Qualitative Reasoning in Molecular Biology, AI Magazine (Winter 1990), pp.9-11, PETER D. KARP	
msy	P12	Ouzounis et al. Genome Research, 10: 568-576, 2000. Resource: Global Properties of the Metabolic Map of Escherichia coli. CHRISTOS A. OUZOUNIS AND PETER D. KARP	
msy	P13	KARP et al. Representations of Metabolic Knowledge ISMB-93, pp. 207-215, 1993, PETER D. KARP AND MONICA RILEY	
msy	P14	KARP et al. HinCyc: A Knowledge Base of the Complete Genome and Metabolic Pathways of H. influenzae ISMB-96, pp. 116-124, 1996, PETER D. KARP, CHRISTOS OUZOUNIS AND SUZANNE PALEY	
msy	P15	KARP et al. TIBTECH, Focus: Integrated pathway-genome database and their role in drug discovery July 1999 (Vol 17), pp.275-281. PETER D. KARP, MARKUS KRUMMENACKER, SUZANNE PALEY AND JONATHAN WAGG	
msy	P16	The WWW Virtual Library of Cell Biology: Signal Transduction pp. 1-3, printed from http://vl.bwh.harvard.edu/signal_transduction.shtml. 6/15/2000.	
msy	P17	Cell Signaling Networks Database [online], pp.1-2 [retrieved on June 15, 2000] Retrieved from <http://geo.nih.gov/cgi-bin/display_tissue/MAP-kinase>.	

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Mor	P18	KARP, P.D. ISMB, vol. 1, pp. 207-15, (1993) <del>NCBI: National Library of Medicine: PubMed (online)</del> <del>retrieved on July 3, 2000 from</del> <del>http://www.ncbi.nlm.nih.gov/Query.fcgi?cmd=PubMed&amp;list_uids=7584337&amp;dept=Abstract</del> only	

Examiner Signature

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